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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/628,179	07/28/2003	Raymond F. Ryan	5011-021	4488
25184	7590	07/22/2004	EXAMINER	
WILLIAM J. MASON MACCORD MASON PLLC POST OFFICE BOX 1489 WRIGHTSVILLE BEACH, NC 28480			PHAM, MINH CHAU THI	
			ART UNIT	PAPER NUMBER
			1724	

DATE MAILED: 07/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/628,179

Applicant(s)

RYAN ET AL.

Examiner

Minh-Chau T. Pham

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 4/23/04.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 6-10, 12-15, 17, 19 and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Staten (4,726,834).

Staten teaches a work station comprising an enclosure (10) having a front wall, a back wall, a top wall, a bottom wall and first and second opposed walls defining a chamber having an air inlet opening (12) and an air outlet opening (13), a first filter (16) between the inlet opening and the chamber, a second filter (16) between the air outlet opening and the chamber, and air flow means to direct air along a horizontal pathway through at least part of the chamber between end walls (see Fig. 1). Staten also teaches the openings are located in the end wall (see Fig. 1) and the air flow means comprising a conduit (11) extending between the openings (12 & 13) and a fan (19) to convey air from the outlet opening (13) to the inlet opening (12), and the first and second filters are parallel to each other and perpendicular to the horizontal pathway (see Fig. 1).

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

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the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 5, 11 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Staten (4,726,824), in view of Mears et al (4,927,438).

Claims 5, 11 and 18 call for the front and back walls including an access opening. Mears et al disclose a front wall (8) of the work station having an access opening (col. 2, lines 16-18). It would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide an access opening as taught by Mears et al in the work station of Staten to provide access to the inside of the work station.

Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Staten (4,726,824), in view of Walker (6,136,077).

Claim 16 calls for deflectors to direct air along the pathway. Walker discloses a container including means for diverting (90) the flow of steam within the container interior comprising a plurality of deflector vanes (92) attached within the container interior which act to deflect the steam flow towards the container outlet. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide means to direct flow such as deflectors as taught by Walker in the work station of Staten since the deflectors would direct the flow of air from the inlet opening along the horizontal pathway to the outlet opening.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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- Brunner et al (4,749,385) disclose an apparatus for providing clean air.
- Luetkemeyer (5,858,041) discloses a clean air system.
- Baker (3,318,076) discloses a dust free bench.
- Lawrence III (3,354,495) discloses a cleaning apparatus.
- Suzuki et al (4,699,640) disclose a clean room.
- Mizuno et al (6,284,020 B1) disclose a clean box for sustrates.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh-Chau T. Pham whose telephone number is (571) 272-1163. The examiner can normally be reached on Mon/Tues/Thur/Fri 7:00 am - 5:30 pm.

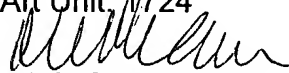
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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**Minh-Chau Pham**

**Patent Examiner**

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**July 20, 2004**